

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION - MATERIALS LABORATORY
PO BOX 47365 OLYMPIA, WA 98504/STREET-1655 S. 2nd AVE TUMWATER, WA 98512

BITUMINOUS SECTION TEST REPORT
TEST OF PAVING ASPHALTS

GRADE: PG64-22 Antistrip: %
SUPPLIER: EXXON MOBIL Type:
SHIPPER: EXXON MOBIL
DATE RECD: 06/25/2010
SR NO: 12 COUNTY:
SECTION: GRAND MOUND TO MAYTOWN

WORK ORDER # 007465
TRANS. LTR.# 10792D
LAB.IDENT. # 000010792D
ASPH. LAB. # A100365
BID ITEM. # 108.02
REGION # 43

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| ACCEPTANCE NO. | ASSURANCE NO. | CERT NO. | DATE SAMPLED |
|----------------|---------------|----------|--------------|
| 12 | | 15482 | 06/23/2010 |

TEST: RESULTS: SPECIFICATIONS:

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ORIGINAL PROPERTIES:

| | |
|----------------------------|--------------|
| VISCOSITY | |
| (BROOKFIELD) @ 135 C, Pa s | 3 MAXIMUM |
| DYNAMIC SHEAR @ 64 C, kPa | 1.00 MINIMUM |
| C.O.C. FLASH POINT, C | 230 MINIMUM |

RTFO AGED PROPERTIES:

| | |
|---------------------------------|--------------|
| MASS LOSS AFTER RTFO, % | 1.00 MAXIMUM |
| DYNAMIC SHEAR @ 64 C, kPa | 2.20 MINIMUM |
| MSCR @ 3.2 kPa @ C, % | REPORT ONLY |
| DIFFERENCE RECOVERY, % | REPORT ONLY |
| NON-RECOVERABLE COMPLIANCE, Jnr | REPORT ONLY |

MSCR and Jnr testing performed at PG base grade temperature

PAV AGED PROPERTIES:

| | |
|---------------------------|---------------|
| PAV AGING TEMPERATURE C | |
| DYNAMIC SHEAR @ 25 C, kPa | 5000 MAXIMUM |
| DYNAMIC SHEAR @ 22 C, kPa | REPORT ONLY |
| CREEP STIFFNESS @ -12 C | |
| "S", MPa | 300 MAXIMUM |
| "m" | 0.300 MINIMUM |

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OSC LABORATORY:

| | | |
|-----------------------|------|---------------------------------|
| Materials File | X | Material does |
| General File | X | specification requirements. |
| REGION: OLYMPIC | | Remarks: |
| Construction Engineer | 43 | SAMPLE APPROVED FOR USE ON THIS |
| Materials Engineer | 43 | CONTRACT BASED ON PREVIOUS AND |
| PE: M. NEBERGALL | X(2) | SUBSEQUENT PASSING TEST |
| EXXON MOBIL | X | RESULTS. |
| | | THOMAS E. BAKER, P.E. |
| | | Materials Engineer |

| | |
|-------|-------|
| T-119 | T-126 |
| T-120 | T-132 |
| T-121 | T-133 |
| T-124 | T-136 |
| T-130 | |
| T-131 | |
| T-134 | |
| T-173 | 1 |

By: Joseph R. DeVol

Date 07/15/2010
Telephone 360-709-5421



Washington State
Department of Transportation



Sample Information

| | |
|------------|-------------|
| LAB ID No. | A100365 |
| Sample ID | 0000010792d |

Work Order 007465

Orgcode 434304

UOM

Contractor

Remarks

Section Grand Mound to Maytown Stage One - Add Lanes

SR Number 012

Material PG 64-22 - 9-02.1(4)A - 2008

Bid Item No 108.02

Sampled At Lakeside Centralia

Date Sampled 6/23/2010

IA Sample No

Supplier Name Exxon Mobil Portland OR.

Manufacturer Exxon Mobil

Spec Ref

Size

Type Oil

Make PG 64 -22

Cert No 15482

Stockpile No

Grade PG 64 -22

Pit No

Sampled By John O'Dell

Quantity Represented 34.64

Acceptance Sample No 12

Used At Station

Asphalt % Requested

Mix ID No

Lot No

Heat No

Reel No

Roll No

Ignition Furnace Calibration factor:

State Field

Specifications

| Test Property | Field Result | Region Result | HQ Result | Jmf | Lower Limit | Upper Limit |
|-------------------------------------|--------------|---------------|-----------|-----|-------------|-------------|
| C.O.C. Flash Point, C | | | | | 230 | |
| Viscosity at 135 C, Pa·s | | | | | | 3 |
| Original Dynamic Shear at 64 C, kPa | | | | | 1 | |
| % Mass Change | | | | | | 1 |
| RTFO Dynamic Shear at 64 C, kPa | | | | | 2.2 | |
| PAV Dynamic Shear at 25 C, kPa | | | | | | 5000 |
| Creep Stiffness at -12 C, "S", MPa | | | | | | 300 |
| Creep Stiffness at -12 C, "m" | | | | | 0.3 | |

Project Engineer
Nebergall, MaryLou

Submitted by
John O'Dell

Phone
(360) 570-6767

RECEIVED

JUN 25 2010

RECEIVED

JUN 24 2010

STATE MATERIALS LAB

STATE MATERIALS LAB